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U. S. FOREST PRODUCTS LABORATORY
MADISON, WISCONSIN.

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LIST OF PUBLICATIONS JANUARY 1 TO JUNE 30, 1930

Publications available for distribution at the laboratory are marked with an asterisk (*). Those not so marked are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from the list of publishers enclosed.

CHEMISTRY OF WOOD

*Cellulose and lignin, by L. F. Hawley (in Cellulose, v.1, No. 4, May, 1930, p. 121-22)

GLUE, PLYWOOD, AND COATINGS

Wood painting: A new point of view in an old field of research, by F. L. Browne (in Research Narrative No. 158 of the Engineering Foundation, Jan. 15, 1930)

*Properties of wood that determine paint service of exterior coatings, by F. L. Browne (in Paint, Oil, and Chemical Review, v. 89, No. 12, Mar. 20, 1930, p. 9-13). Mimeograph R895.

-----Same. (in American Paint Journal, v. 14, No. 25, Apr. 7, 1930 p. 22, 24, 26, 28)

-----Same. (in Industrial and Engineering Chemistry, v. 22, No. 4, Apr., 1930, p. 400-01)

*Effect of priming-coat reduction and special primers upon paint service on different woods, by F. L. Browne. Mimeograph R898, Mar. 26, 1930.

*Copper salts improve casein glue, Technical Note No. 170,
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*Gluing in relation to manufacture of millwork, by
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*Problems of wooden door manufacture, by H. H. Ketcham
(in Timberman, v. 31, No. 5, Mar., 1930, p. 98, 104)

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Properties of western hemlock and their relation to uses
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Department of Agriculture Technical Bulletin No.
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Agriculture Technical Bulletin No. 158, Feb., 1930.
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*Effect of partial seasoning on the strength of wood, by
T. R. C. Wilson, T. A. Carlson, and R. F. Luxford
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*The torsion of members having sections common in air-
craft construction, by G. W. Trayer and H. W. March.
(National Advisory Committee for Aeronautics.
Report 334, 1930)

*Effect of creosote on strength of fir timbers, by
T. R. C. Wilson (in Timberman, June 1930)

/Design of plywood webs for airplane wing beams, G. W. Trayer. (National Advisory Committee for Aeronautics. Report No. ~~334~~, 1930)
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*Tests of large timber columns and presentation of the Forest Products Laboratory column formula, by J. A. Newlin and J. M. Gahagan, Department of Agriculture Technical Bulletin No. 167, Feb., 1930.

*A method of calculating the ultimate strength of continuous beams, by J. A. Newlin and G. W. Trayer. (National Advisory Committee for Aeronautics. Report 347, 1930)

*Design of airplane wing ribs, by J. A. Newlin and G. W. Trayer. (National Advisory Committee for Aeronautics. Report 345, 1930)

*Slant driving of nails, by L. J. Markwardt and J. M. Gahagan (in Packing and Shipping, Jan., 1930)

*Application of silviculture in controlling the specific gravity of wood, by B. H. Paul, Department of Agriculture Technical Bulletin No. 168, Jan., 1930.

*The rigidity and strength of frame walls, by G. W. Trayer. Mimeograph R896.

PULP AND PAPER MANUFACTURE

*Neutral sulphite pulping process, part 2: Effect on yield, chemical properties, and color of pulps produced by changing the ratio of sodium sulphite to sodium bicarbonate in the cooking liquor, by M. W. Bray and P. R. Eastwood (in Paper Trade Journal, v. 90, No. 25, June 19, 1930, p. 57-60)

Determination of the volumetric composition of paper, by P. K. Baird and C. E. Hrubesky. (in Technical Association Papers, 1930, Technical Association of the Pulp and Paper Industry)

*Neutral sulphite pulping process, part 2, (in Technical Association Papers, 1930, Technical Association of the Pulp and Paper Industry)

*Physical and chemical characteristics of hemp stalks and seed flax straw, by E. R. Schafer and F. A. Simmonds (in Paper Trade Journal, v.90, No. 20, May 15, 1930, p. 67-70)

*Ground wood pulp evaluation by means of static bending, screen analysis, and rate of flow tests, by E. R. Schafer and L. A. Carpenter (in Technical Association Papers, 1930, Technical Association of the Pulp and Paper Industry)

*Effects of bleaching variables on the strength properties of easy-bleaching spruce sulphite pulp, by P. K. Baird and R. H. Doughty (in Paper Trade Journal, Feb. 20, 1930, p. 175-83 alternate pages).

-----Same. (in Technical Association Papers, 1930, Technical Assn. of the Pulp and Paper Industry)

*Semi-sulphite process, part 2: Experiments in duplicating commercial news and wrapping papers, by C. E. Curran, W. H. Monsson, and G. H. Chidester (in Paper Trade Journal, Apr. 3, 1930)

-----Same. (in Technical Association Papers, 1930, Technical Assn. of the Pulp and Paper Industry)

Assisting the paper industry in solving its problems, by C. C. Heritage and C. E. Curran (in Chemical and Metallurgical Engineering, Feb., 1930)

Rate of flow test for evaluating ground wood, by L. A. Carpenter and E. R. Schafer (in Technical Assn. Papers, 1930, Technical Assn. of the Pulp and Paper Industry)

*Screen analysis as an aid in pulp evaluation, by E. R. Schafer and L. A. Carpenter (in Paper Trade Journal, v.40, No. 19, May 8, 1930, p. 57-61)

Relation of sheet properties to fiber properties through a sheet structure, by C. C. Heritage and R. H. Doughty (in Technical Association Papers, 1930, Technical Assn. of the Pulp and Paper Industry)

SEASONING OF WOOD

*Depression of the wet bulb for control of the dry kiln, by H. D. Tiemann (in Hardwood Record, Mar., 1930)

-----Same. (in Southern Lumberman, Feb. 15, 1930)

-----Same. Improving the control of dry kilns: Depression of wet bulb permits control of drying conditions independent of minor temperature changes (in Furniture Manufacturer, v.39, No. 4, Apr., 1930)

*Preventing cracks in new wood floors, by L. V. Teesdale, Department of Agriculture Leaflet No. 56, Mar., 1930.

Lumber for farm buildings should be well seasoned, by Rolf Thelen (in U. S. Department of Agriculture Yearbook, 1930)

*Kiln drying of southern yellow pine lumber, by L. V. Teesdale, Department of Agriculture Technical Bulletin No. 165, Jan., 1930.

*Dimension changes in millwork due to varying atmospheric conditions, by J. S. Mathewson (in Woodworking Industries, v. 7, No.6, June, 1930, p. 40-41)

*Distribution and amount of moisture in virgin redwood trees, by R. F. Luxford (in Timberman, Feb., 1930)

SHIPPING CONTAINERS

*Some modifications in nailing schedule are suggested by Forest Products Laboratory, by C. A. Plaskett (in Barrel and Box and Packages, v. 35, No. 1, Jan., 1930)

-----Same. Improved nailing for boxes, (in Packing and Shipping, Mar., 1930)

*Principles of box and crate construction, by C. A. Plaskett, Department of Agriculture Technical Bulletin No. 171, Apr., 1930.

*Index to Technical Bulletin No. 171, Principles of box and crate construction. This mimeographed index supplements the Table of Contents in the printed text. The bulletin as distributed did not have this index, but it may be obtained at the Laboratory on request.

*Determining the cause of failures in shipping containers, by C. A. Plaskett (in American Box Maker, v. 20, No. 7, Mar. 20, 1930, p. 42, 44)

-----Same. (in Fiber Containers, Apr., 1930)

-----Same. (in Paper Trade Journal, June 19, 1930)

-----Same. (in Technical Association Papers, 1930, Technical Assn. of the Pulp and Paper Industry)

*Knotty lumber for boxes, by G. E. Heck and I. B. Lanphier, Department of Agriculture Circular No. 105, March, 1930.

*Relation of concealed damage to crate construction, by G. E. Heck (in Barrel and Box and Packages, v. 35 No. 3, Mar., 1930, p. 19-22)

-----Same. (in Commercial America, May, 1930)

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*Cause of twisting in crates demonstrated, by G. E. Heck (in Barrel and Box and Packages, June, 1930)

-----Same. (in Materials, Handling, and Distribution, May, 1930)

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Measuring the fire resistance of wood, by T. R. Truax and C. A. Harrison. Presented at the meeting of the Wood Industries Division of the American Society of Mechanical Engineers, New York City, Feb. 27, 1930.

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American Box Maker, 64 W. Randolph St., Chicago, Ill.
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American Soc. of Mech. Engineers, 29 W. 39th St., New York
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Washington, D. C.
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Cellulose, 246 Stuart Bldg., Boston, Mass.
Chemical and Metallurgical Engineering, 10th Ave. at
36th St., New York City.
Commercial America, 34th St., Philadelphia, Pa.
Electric Light & Power, 360 N. Mich. Ave., Chicago, Ill.
Engineering Foundation, Inc., 29 W. 39th St. New York.
Fiber Containers, 228 N. LaSalle St., Chicago, Ill.
Furniture Manufacturer, 200 Division Ave., N., Grand
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Hardwood Record, 537 S. Dearborn St., Chicago, Ill.
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W. Washington, D. C.
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National Advisory Committee for Aeronautics, Washington,
D. C.
Naval Stores Review, 116 Bryan St., Savannah, Ga.
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41st St., New York City.
Telephone Engineer, 192 N. Clark St., Chicago, Ill.
Timberman, 616 Spaulding Bldg., Portland, Ore.
West Virginia Wild Life, Masonic Temple, Virginia and
Hall Sts., Charleston, W. Va.
Wood Construction, Green and Market Sts., Xenia, Ohio.
Wood Working Industries, Jamestown, New York.

- *Fire resistance of wood treated with zinc chloride and diammonium phosphate, by G. M. Hunt, T. R. Truax, and C. A. Harrison (in American Wood Preservers' Association Proceedings, 1930)
- *Studies of heat conduction in wood: Results of steaming green round southern pine timbers, by J. D. MacLean (in American Wood Preservers' Association Proceedings, 1930)
- *Service records of treated and untreated fence posts, by R. M. Wirka, (in American Wood Preservers' Association Proceedings, 1930)
- *Pitch-treated lodgepole pine poles give short life, by R. M. Wirka and C. N. Whitney (in Telephone Engineer, Jan., 1930)
- Same. (in Electric Light and Power, Feb., 1930)
- *Preservative treatment of Engelmann spruce ties, by J. D. MacLean (in American Wood Preservers' Association Proceedings, 1930)

WOOD STRUCTURE

- *Structure of a hardwood, Technical Note No. 210, revised May, 1930.
- *Causes and prevention of raised grain, by Arthur Koehler (in Timberman, v. 31, No. 4, Feb., 1930)
- Same. (in Wood Working Industries, Jan., 1930)
- Microscope as an aid to the naval stores industry, by Eloise Gerry (in Naval Stores Review, Jan., 1930)
- *How does the grain run? Porosity tests as applied by Forest Products Laboratory indicate without spoiling wood just what the inner construction is like, by H. D. Tiemann (in Furniture Manufacturer, v. 39, No. 3, Mar., 1930, p. 104, 108)
- Same. (in Wood Working Industries, Feb., 1930)

- *Light weight ash from butt swelled trees should be segregated in shipping ash lumber, by B. H. Paul (in Wood Construction, Feb. 15, 1930)
- Same. (in Wood Working Industries, Mar., 1930)

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- *Selective logging in the northern hardwoods of the Lake States, by Raphael Zon and R. D. Garver, Department of Agriculture Technical Bulletin No. 164, January, 1930.
- *Selective logging of southern pine, by R. D. Garver (in Lumber Trade Journal, Apr. 1, 1930)
- Same. (in Southern Lumberman, v. 139, No. 1778, May 1, 1930, p. 69-70)

Taking stock of dimension stock, by A. O. Benson (in Memphis Lumberman, Mar., 1930)

Relation of utilization to profitable tree growing, by C. P. Winslow. Address delivered at the Commercial Forestry Conference, Charleston, Dec. 4-5, 1929, (in West Virginia Wild Life, Mar., 1930)

Role of utilization in industrial forestry, by R. D. Garver (in Southern Lumberman, v. 138, No. 1775, Mar. 15, 1930, p. 50, 52)

*Wood flour: A general statement of the manufacture and use of wood flour and the status of the industry. Mimeograph 565, Apr. 25, 1930.

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*Manufacture of rayon or cellulose silk, Technical Note No. 217, revised Mar., 1930.

*Log of the Lab: Items of current interest, Apr., 1930.

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U. S. FOREST PRODUCTS LABORATORY

MADISON, WISCONSIN

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U. S. Department of Agriculture

LIST OF PUBLICATIONS JULY 1 TO DECEMBER 31, 1930

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Trade journals and magazines referred to, if not available in your local library, may be obtained from the list of publishers given on pages 7 and 8.

CHEMISTRY OF WOOD

Differences between the state of dispersion of isolated wood cellulose and cotton cellulose in cuprammonium solvent, by A. J. Stamm (in Jour. of the American Chemical Society, Aug., 1930)

Electrical conductivity method for determining the moisture content of wood, by A. J. Stamm (in Industrial and Engineering Chemistry - Analytical Edition - July 15, 1930)

State of dispersion of cellulose in cuprammonium solvent as determined by ultracentrifuge methods, by A. J. Stamm (in Jour. of the American Chemical Society, Aug., 1930)

GLUE, PLYWOOD, AND COATINGS

Why wood painting research becomes a problem in forestry, by F. L. Browne (in Journal of Forestry, Dec., 1930)

*Chemical treatment of surfaces improves glue joints in certain woods, Technical Note No. 232, Dec., 1930.

Developments in the stabilization of painting practice for wood, by F. L. Browne (in Transactions of Amer. Soc. Mech. Engs., 1930)

*Why some wood surfaces hold paint longer than others, by F. L. Browne (U. S. Dept. of Agri. Leaflet 62)

*Effectiveness of moisture-excluding coatings on wood, by G. M. Hunt (U. S. Dept. of Agri. Circular 128)

*Procedure used by the Forest Products Laboratory for evaluating paint service on wood, by F. L. Browne (Amer. Soc. for Testing Materials. Preprint, 1930)

*Gluing wood in aircraft manufacture, by T. R. Truax (U. S. Dept. of Agri. Tech. Bulletin 205)

Dry glue method of laying veneers, by T. R. Truax (in Veneers, Oct., 1930)

MECHANICAL PROPERTIES OF WOOD

*Moisture content and wood pole lines, by R. F. Luxford (in Electric Light & Power, Oct., 1930)
Same. (in Railway Signaling, Aug., 1930)

*Comparative strength properties of woods for cross ties, by L. J. Markwardt (Cross Tie Bul. Nov., 1930)

*The effects of nail points on resistance to withdrawal, by L. J. Markwardt and J. M. Gahagan (in Barrel & Box & Packages, Sept., 1930)
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Same. (in Wood Working Industries, Oct., 1930)
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*Moisture in wood and its relation to strength, by T. R. C. Wilson (in American Lumberman, July 19, 1930)
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Same. (in Wood Working Industries, Aug., 1930)

Factors in testing structural timbers, by J. A. Newlin
(in Timberman, Aug., 1930)

Aircraft woods: Their properties, selection, and characteristics, by L. J. Markwardt (National Advisory Committee for Aeronautics Report No. 354, 1930)

Bark characteristics an index of density in redwood, by R. F. Luxford (Jour. of Forestry, May, 1930)

PULP AND PAPER

Research to be conducted on western woods, by C. E. Curran
(in Pacific Pulp & Paper Industry, July, 1930)

Reaction variables of the alkaline pulping process, by C. E. Curran and M. W. Bray (in Industrial & Engineering Chemistry, Aug., 1930)

*Pulping and papermaking properties of selected New Zealand woods, by C. E. Curran, P. K. Baird, E. R. Schafer, W. H. Monsson, G. H. Chidester, and A. R. Entrican (in New Zealand State Forest Service Bulletin No. 6, Feb., 1930)

*Evaluation of second-growth longleaf pine pulp wood, by M. W. Bray and B. H. Paul (in Southern Lumberman, Dec. 15, 1930)

Pulping eastern hemlock by sulphite process, Part 2: Effect of different types of temperature curves, by W. H. Monsson and G. H. Chidester (in Paper Trade Journal, Oct. 16, 1930)

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Ventilation and circulation in a dry kiln, by W. K. Loughborough (Southern Lumberman, Oct. 15, 1930)

Getting down to brass tacks in kiln drying, by W. K. Loughborough (in Memphis Lumberman, Sept., 1930)

- Stresses and their relation to kiln drying, by W. K. Loughborough (in Lumber Worker, Nov., 1930)
Same. (in Southern Lumberman, Nov. 15, 1930)
- *Longitudinal shrinkage of wood, by Arthur Koehler (in Transactions of the American Society of Mechanical Engineers, Wood Industries Div., 1930)
- *Some notes on the blinker moisture indicator for wood by M. E. Dunlap (Mimeograph R903, Aug., 1930)
- *Piling dimension stock for air seasoning, by A. O. Benson (in Southern Lumberman, Nov. 15, 1930)
- *Moisture content for aircraft wood, Tech. Note 230
- *Longitudinal shrinkage of wood, Tech. Note 234
- *Approximate air seasoning and kiln drying periods for inch lumber, Tech. Note 233
- Temperatures in kiln drying, by H. D. Tiemann (in Memphis Lumberman, July, 1930)
- Supplying seasoned stock to retail lumber distributors, by L. V. Teesdale (Mississippi Valley Lumberman, July 25, 1930 and Sept. 5, 1930)
- Cupping of plain-sawed lumber and checking of timbers, B. H. Paul (Southern Lumberman, Sept. 1, 1930)
- *Blinker: An instrument for determining moisture content of wood, by C. G. Suits and M. E. Dunlap (in American Lumberman, July 5, 1930)
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*Retaining proper moisture content in lumber during distribution, by L. V. Teesdale (in Mississippi Valley Lumberman, Oct. 10, 1930 and Nov. 28, 1930)

*Air seasoning of wood, by J. S. Mathewson (U. S. Dept. of Agriculture Tech. Bulletin No. 174, Apr., 1930)

WOOD PRESERVATION

Future problems for research, by Ernest Bateman (American Wood Preservers' Assn. Proceedings, 1930)

*An international termite exposure test, by G. M. Hunt and T. E. Snyder (in American Wood Preservers' Assn. Proceedings, 1931)

*A theoretical estimate on the preservative life of coal tar creosote and coal tar products, by Ernest Bateman (Amer. Wood Pres. Assn. Proceedings, 1931)

*Recent experiments with chemicals suggested for wood preservation, by Ira Hatfield (in American Wood Preservers' Assn. Proceedings, 1931)

*Results obtained in marine piling experiments, by J. D. MacLean, (Amer. Wood Pres. Assn. Proceedings 1931)

*Additional experiments in fireproofing wood, by Geo. M. Hunt, T. R. Truax, and C. A. Harrison, (in American Wood Preservers' Assn. Proceedings, 1931)

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Newly discovered microscopic structural units of wood fibers, by G. J. Ritter and R. M. Seborg (in Industrial & Engineering Chemistry, Dec., 1930)

*Compression wood as a cause of distortion of softwood lumber, M. Y. Pillow (Jour. Forestry, Dec., 1930)
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*Wood fibers, by G. J. Ritter (in Jour. of Forestry, Apr., 1930)

*Heartwood in second-growth southern pines, by B. H. Paul (in Naval Stores Review, Oct. 18, 1930)
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WOOD UTILIZATION, LOGGING, AND MILLING

Will sustained yield in lumber operation come through regulation or through competition? by F. J. Hallauer (in Jour. of Forestry, Nov., 1930)

*Selective logging versus clear cutting in shortleaf pine, by R. D. Garver (in Lumber Trade Journal, Oct. 15, 1930)
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Selective logging as a protective measure, by R. D. Garver (in Georgia State Forest Service Bull. 11)

*Utilization of black locust, by J. B. Cuno (U. S. Dept. of Agriculture Circular No. 131, Oct., 1930)

*Prospective markets for small hardwoods through mechanical and chemical fabrication, by R. D. Garver (in Southern Lumberman, Dec. 15, 1930)

*Portable band sawmills, by R. D. Garver (in American Lumberman, July 26, 1930)
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*Cutting cull second-growth to improve hardwood stands, J. B. Cuno (Southern Lumberman, Dec. 15, 1930)

*Future of wood in aircraft construction, by G. W. Trayer (in Southern Lumberman, Dec. 15, 1930)

*Forest Products Laboratory study to help small mill situation, by C. J. Telford (in Southern Lumberman, July 15, 1930)

- *Chestnut as a core wood, by G. C. Morbeck (in Furniture Manufacturer, Nov., 1930)
- Same. (in Wood Construction, Oct., 15, 1930)
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*Small sawmill improvement: Practical pointers to field agencies, waste from variation in sawing precision. (Mimeograph R899-2)

Chestnut poles from man-killed and blight-killed trees (condensed version), by R. P. A. Johnson (in Hardwood Record, Dec., 1930)

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*Recent progress in wood research at the U. S. Forest Products Laboratory. (Mimeograph R905, Aug., 1930)

The Log of the Lab: Items of current interest, Aug. 30, and November 15, 1930

*Relation between moisture content of the wood and blue stain in loblolly pine, by R. H. Colley and C. T. Rumbold (in Jour. of Agricultural Research, U. S. Dept. of Agriculture, Sept. 1, 1930)

United States Forest Products Laboratory, by Eloise Gerry (in International Naval Stores Yearbook, 1930-31)

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Mich.
State Forest Service, State Capitol, Atlanta, Ga.
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Instruments, 5619 Forbes St., Pittsburgh, Pa.
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Savannah, Ga.
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Cambridge, Mass.
Journal of Forestry, Room 517, Lenox Bldg., 1523 L. St.
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Wood Workers Journal, 400 W. Madison St., Chicago, Ill.
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